Algebra

September 24th (Tue)

9:00–12:00

14:15–16:45

19 Jerome T. Dimabayao (Kyushu Univ.) [♯] On the vanishing of cohomologies of p-adic Galois representations associated with elliptic curves $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

20 Yuken Miyasaka (Tohoku Univ.) [♯] Honda theory for formal groups of abelian varieties over $\mathbb{Q}$ of GL_2-type $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 10

21 Hiroshi Sakata [*]
    (Waseda Univ. Senior High School) A remark on the trace formula for Jacobi forms of prime power level $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

22 Hirotaka Kodama (Kinki Univ.) [♯]
    Shoyu Nagaoka   (Kinki Univ.) A congruence property of a Siegel cusp form of odd weight $\cdots\cdots\cdots$ 10

23 Takao Watanabe (Osaka Univ.) [*] A construction of fundamental domains for arithmetic quotients of reductive algebraic groups $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 10

24 Kohei Katata   (Ehime Univ.) [*]
    Miki Hirano   (Ehime Univ.)
    Yoshinori Yamasaki (Ehime Univ.) On Ramanujan circulant graphs $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

17:00–18:00   Talk invited by Algebra Section

Yuval Flicker [♯] Counting local systems via automorphic forms
    (Ohio State Univ. / Ariel Univ.)

September 25th (Wed)

9:00–12:00

25 Hidefumi Ohsugi (Rikkyo Univ.) [♯]
    Akihiro Shikama (Osaka Univ.)
    Kenta Nishiyama (Univ. of Shizuoka)
    Takayuki Hibi   (Osaka Univ.) Quadratic toric ideals and quadratic Gröbner bases of graphs $\cdots\cdots\cdots$ 15

26 David A. Cox (Amherst College) [♯]
    Christian Haase
      (Goethe-Universität Frankfurt)
    Takayuki Hibi
        (Osaka Univ. / JST CREST)
    Akihiro Higashitani (Osaka Univ.) Some invariants on normality of dilated polytopes $\cdots\cdots\cdots\cdots\cdots\cdots$ 15

27 Akihiro Higashitani (Osaka Univ.) [♯] Ehrhart polynomials of reflexive polytopes and orthogonal polynomial systems $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

28 Hiroyasu Takeda (Hokkaido Univ.) [♯] For Hilbert basis of semi-group ring associated with the main diagonal sum model $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

29 Masahide Konishi (Nagoya Univ.) [♯] A classification of cyclotomic KLR algebras of type $A_n^{(1)}$ $\cdots\cdots\cdots\cdots$ 15

30 Hirotaka Higashidaira (Meiji Univ.) [♯] Sequentially Cohen–Macaulay bipartite graphs and cycle graphs $\cdots\cdots$ 10

31 Kyouko Kimura (Shizuoka Univ.) [*]
    Naoki Terai   (Saga Univ.) Arithmetical rank of Gorenstein squarefree monomial ideals of height three $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

32 Masataka Tomari (Nihon Univ.) [*] On Demazure's construction of finite Abelian coverings of normal graded rings $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

33 Yusuke Nakajima (Nagoya Univ.) [♯] Dual F-signature of Cohen–Macaulay modules over cyclic quotient surface singularities $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 15

34 Manabu Matsuoka [*]
    (Osaka Shoin Women's Univ.) Rings with direct summand conditions and linear codes $\cdots\cdots\cdots\cdots$ 10

35 Noritsugu Kameyama (Shinshu Univ.)♯ Constructions of Auslander–Gorenstein local rings ················ 10
    Mitsuo Hoshino (Univ. of Tsukuba)
    Hirotaka Koga (Univ. of Tsukuba)

13:15–14:15   Talk invited by Algebra Section

    Shunsuke Takagi (Univ. of Tokyo)♯ F-singularities and singularities in the minimal model program

September 26th (Thu)

9:00–11:25

36 Sho Matsuzawa (Shizuoka Univ.)♯ Classification of 3-dimensional quadratic AS-regular algebras ········ 10
    Gahee Kim   (Shizuoka Univ.)
    Hidetaka Matsumoto (Shizuoka Univ.)

37 Kenta Ueyama (Shizuoka Univ.)♯ Finite Cohen–Macaulay representation type and noncommutative graded
    isolated singularities ··· 15

38 Takahiko Furuya (Meikai Univ.)♯ Some self-injective algebras with finite Hochschild cohomology ······· 10
    Takao Hayami (Hokkai-Gakuen Univ.)

39 Hirotaka Koga (Univ. of Tsukuba)♯ Finiteness of selfinjective dimension and associated invariants under
    derived equivalences ·· 15

40 Daiki Obara (Tokyo Univ. of Sci.)♯ One point extension of a quiver algebra defined by two cycles and a
    quantum-like relation ··· 10

41 Yasuhiko Takehana   ♯ A generalization of Goldie torsion theory ························ 10
    (Hakodate Nat. Coll. of Tech.)

42 Ryo Kanda   (Nagoya Univ.) Atom spectrum and classification of subcategories ················· 15

43 Kenichi Shimizu (Nagoya Univ.)♯ Canonical pivotal objects in finite tensor categories ················ 15

44 Hiroaki Komatsu   * A characterization of coseparable corings by generalized coderivations
    (Okayama Pref. Univ.) ··· 10

45 Yuji Tsuno (Chiba Inst. of Tech.)* Central cleft extensions for free Hopf algebras ····················· 15

11:30–12:00   Research Section Assembly

14:15–16:00

46 Takashi Niwasaki (Ehime Univ.)* A characterization of exceptional 2-groups by the numbers of the endo-
    Tsunenobu Asai (Kinki Univ.) morphisms ·· 10

47 Akihiko Hida   (Saitama Univ.)* On the mod p cohomology of the extraspecial p-group and the action
    of the double Burnside algebra ······································ 10

48 Shigeo Koshitani (Chiba Univ.) The Alperin weight conjecture and Broue conjecture in modular repre-
    Radha Kessar (City Univ. London) sentation theory ··· 15
    Markus Linckelmann
          (City Univ. London)

49 Shigeo Koshitani (Chiba Univ.) Broue's abelian defect group conjecture for finite sporadic simple groups
    Jürgen Müller (RWTH Aachen Univ.) ··· 15
    Felix Noeske (RWTH Aachen Univ.)

50   Takanori Sakamoto   *   Some properties of factorized Lie algebras · 10
        (Fukuoka Univ. of Edu.)
     Masanobu Honda
     (Nigata Univ. of Pharm. & App. Life Sci.)

51   Masanari Okumura (Univ. of Tokyo)♯   Vertex algebras and the equivariant Lie algebroid cohomology · · · · · · · 15

52   Kazuya Kawasetsu (Univ. of Tokyo)*   The intermediate vertex subalgebras of the lattice vertex operator al-
                                          gebras · 15

16:15–17:15   Talk invited by Algebra Section

     Masahiko Miyamoto   ♯   On orbifold conjecture about vertex operator algebras
        (Univ. of Tsukuba)

September 27th (Fri)

9:30–12:00

53   Hiroko Yanaba (Hiroo Gakuen)♯   On pseudo primes · 10
     Inoru Shioya   (Hiroo Gakuen)

54   Shigeru Iitaka (Gakushuin Univ.⋆)♯   Hartshorne's identities and their applications 2 · 15

55   Kenta Watanabe (Osaka Univ.)*   On extensions of a double covering of plane curves and Weierstrass
                                          semigroups of the double covering type · 10

56   Masaaki Homma (Kanagawa Univ.)♯   Numbers of points of surfaces in the projective 3-space over finite fields
                                          · 15

57   Shinya Kitagawa   *   On certain pencils of plane curves of degree thirteen with a quintuple
        (Gifu Nat. Coll. of Tech.)   point and nine quadruple points II · 15

58   Shingo Taki (Tokyo Denki Univ.)*   On Oguiso's $K3$ surface · 15

59   Humihiko Watanabe   *   Twisted cohomology groups associated to configuration of two theta
        (Kitami Inst. of Tech.)   divisors on Jacobian variety of dimension 2 · 10

60   Hiromu Tanaka (Kyoto Univ.)   Cone theorem and minimal models for threefolds in positive character-
                                          istic · 15

61   Katsuhisa Furukawa (Waseda Univ.)♯   Cohomological characterization of hyperquadrics of odd dimensions in
                                          characteristic two · 15

62   Michio Amano   ♯   On the kernels of certain homomorphisms of the Witt vectors · · · · · · · 10

14:15–15:30

63   Aiichi Yamasaki (Kyoto Univ.)♯   Rationality of $z^2 = P(x)y^2 + Q(x)$ · 10

64   Tatsuki Hayama   ♯   Boundary component structure of period domains · · · · · · · · · · · · · · · · · · 15
        (National Tsing Hua Univ.)

65   Tomohiro Iwami   *   A Variant of Iskovskikh's rationality criterion for conic bundles in the
        (Kyushu Sangyo Univ.)   case of polarized (log) pairs · 10

66   Roberto Muñoz   *   Rational curves, Dynkin diagrams and Fano manifolds with nef tangent
        (Univ. Rey Juan Carlos)   bundle · 15
     Gianluca Occhetta (Univ. di Trento)
     Luis Eduardo Solá Conde
        (Univ. Rey Juan Carlos)
     Kiwamu Watanabe (Saitama Univ.)
     Jarek Wiśniewski (Warsaw Univ.)

67   Kazunori Yasutake (Meiji Univ.)* On Fano n-folds with nef vector bundle $\Lambda^3 T_X$ having a birational contraction $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 10

68   Sinichi Matsumura (Kagoshima Univ.)♯ A Nadel vanishing theorem for metrics with minimal singularities on big line bundles $\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots$ 10

15:45–16:45   Talk invited by Algebra Section

Yoshiaki Fukuma (Kochi Univ.)♯ A study on the dimension of global sections of adjoint bundles by invariants of quasi-polarized varieties